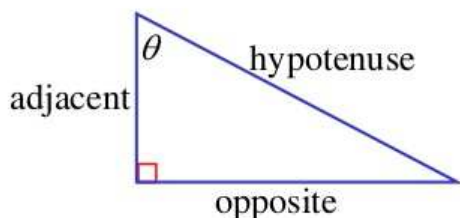


TRIGONOMETRY TEST

Memorize 3 trigonometric ratios. They are not on formula sheet.

SOHCAHTOA is a memory tool that might help you remember.

Trigonometric Ratios



$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

→ Given a diagram of a right angled triangle....

- Label **opposite, adjacent, hypotenuse**
- state which trigonometric ratio you'd use to find the requested side or angle
- State the ratio (with numbers) for $\sin \theta$, $\cos \theta$, or $\tan \theta$
- Find missing angle using a trigonometric ratio.. and/or by subtracting other angle from 90°
- Find missing side using a trigonometric ratio and/or with Pythagoras' Theorem
- Find all missing sides and angles ("solve the triangle")

→ **Question example:** $\cos x = 0.232$. What is the measure of $\angle x$?

→ Given a situation described in words, sketch the diagram and find the requested information using one or a combination of:

- Find angle using a trigonometric ratio.. and/or by subtracting other angle from 90°
- Find side using a trigonometric ratio and/or with Pythagoras' Theorem

*Finding this information might involve **more than one step**.. and/or **more than one triangle**. (see all word problems in examples in booklet / text and particularly look at 2.7. Also see "final review" sheet used for whiteboard activity in class.)

*Situation might include the expressions "**angle of elevation**.. **angle of depression**.. **angle of inclination**" and you should know how to represent those in a diagram.